

SWiFt NDS Administrator's Guide

for SWiFt version 1.0

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NDS Security Administration

NDS Security administration is the process of specifying the Novell Directory Services (NDS)¹ information required to provide security for your application when using the LDAPAuthorizer to perform authorization for your application. The process of setting up the NDS security information includes the following steps:

- Application ID Creation
- Administrator Assignment
- User Account Creation
- User Profile Creation
- Role Creation
- Role Assignment

Each of these steps is described below. After setting up the NDS security information, the application can be configured to use this NDS information to provide Action level security based on the user's assigned roles for the application. For information on configuring SWiFt applications, refer to the 'SWiFt Developer's Guide'.

Application ID Creation

The first step in setting up NDS security for SWiFt applications is to create an 'application ID' for your application in the NDS directory. This function is restricted to ITS personnel. To have an 'application ID' created in the NDS directory, send an e-mail message to dlaw@utah.gov². In the message, specify the name of the application, the requested 'application ID', the name of the primary contact for the application, the "Single Sign-On" user id of the person(s) who should be designated as application administrator(s), and the full name of the person(s) who should be designated as application administrator(s). A web-based form will eventually be created for specifying this information.

Administrator Assignment

The administrator(s) of an application have access rights to use the "NDS Application Administration Tool"³ to perform the other security administration functions specified in this document. The tool is a web application that is only accessible to people who have

¹ The NDS directory used by SWiFt is the new User Master Directory (eDirectory) implementation of Novell Directory Services.

² The address will be changed in the near future.

³ This tool will be replaced in the near future with a SWiFt application.

been assigned as administrators for one or more applications. ITS assigns the initial administrator(s) when creating the ‘application ID’. Administrators can then use the tool to assign other administrators or to unassign administrators.

To access the tool to assign an administrator, go to <http://itsweb5sit.state.ut.us/NASApp/Profiles/listApplications.jsp>⁴. After logging in, scroll to the bottom of the page and press the “Application Administration” button. You will then see a set of buttons for any applications you administer. Press the “Edit Rights” button for the desired application. You will then see the following page:

Administer Application (SwiftExample1~)

Select Application Show Profile Associations Modify Groups

Parents

O=UT
OU=AS, O=UT
OU=DP, OU=AS, O=UT
CN=jwilkers, OU=DP, OU=AS, O=UT

Effective Profile for CN=jwilkers, OU=DP, OU=AS, O=UT

Label	Value
Administrator	<input checked="" type="radio"/> Yes <input type="radio"/> No
AddSelf	<input checked="" type="radio"/> Yes <input type="radio"/> No
Associator	<input checked="" type="radio"/> Yes <input type="radio"/> No

Remove Profile Modify

Display Selector

☐ Users ☒ Org Units
☐ Groups ☐ Org Roles

Display

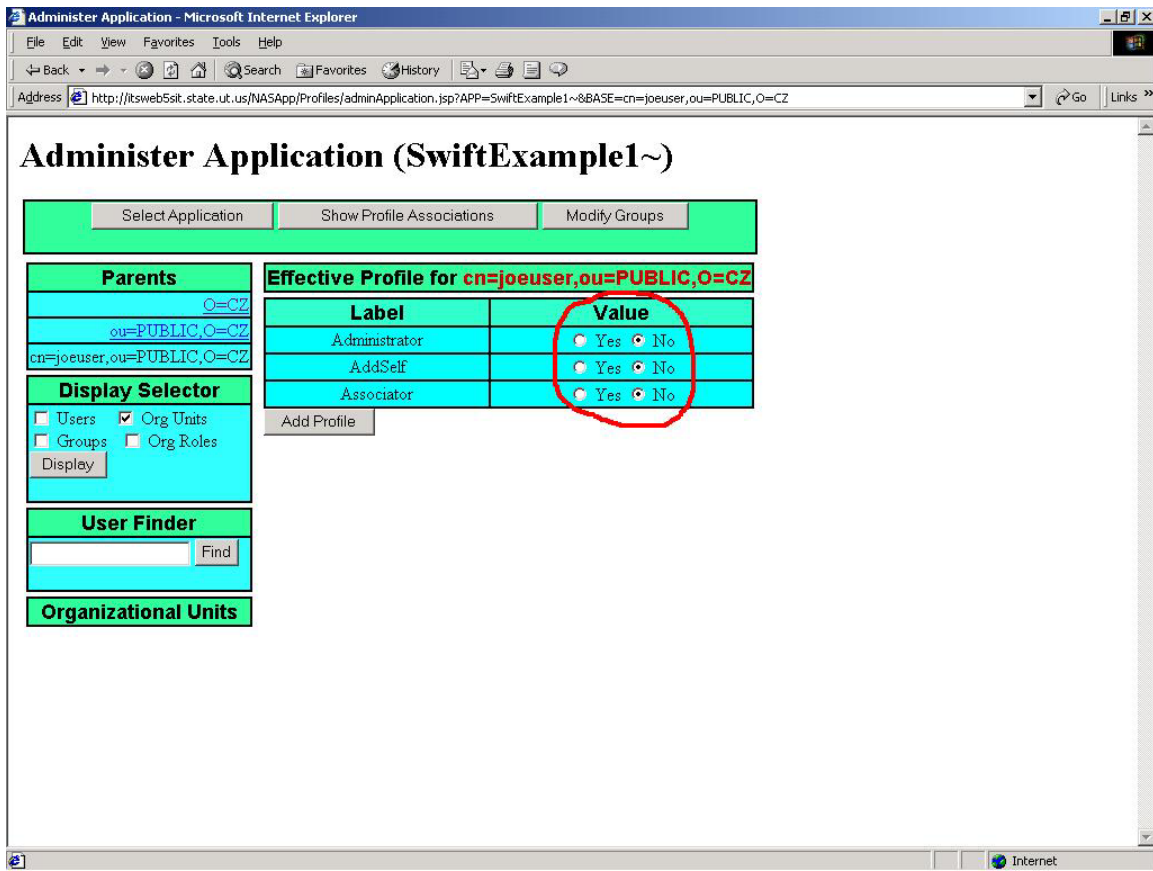
User Finder

Find

Organizational Units

Go to the “User Finder” section of the page (circled in red), type in the last name of the person to be assigned as an administrator and press the “Find” button. You will then see a list of users with the specified last name. Select the appropriate user from the list. You will then see the original page with the new user’s profile displayed as follows:

⁴ This URL will be changed in the near future.



Go to the “Value” section of the page, change all values to “Yes”, and press the “Add Profile” button. The user is now an administrator for the application.

User Account Creation

The user account required to access SiteMinder protected web applications hosted at ITS is the same for most state employees as their login ID. As a result, most state employees will already have a user account⁵. Non-state employees, or state employees without a user account who need to access these applications will need to create a user account.

To create a user account, use a web browser to go to the URL of the application you want to access⁶. SiteMinder will intercept the request and redirect it to the following login page:

⁵ DOT, Courts, and the Department of Education have their own NDS directories, so employees who work for these agencies will need to create a user account in the state’s User Master Directory to access SiteMinder protected applications hosted by ITS.

⁶ You can actually create an account by going to any SiteMinder protected URL hosted by ITS. An example of a URL that will work is <http://innerweb.utah.gov>.

Login - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address <https://login.innerweb.state.ut.us/LowLogin/Path=d:/Netscape/suitespot/docs/Security/v2?TYPE=33554> Go Links >>

utah gov

innerweb State of Utah

Login

To enter this secured area, please login by submitting the following information.

User ID:

Lan Password:

(Optional) State PIN:

Do Not Show 'Success' Screen **Do not Show** ☐

If you do not have a PIN, or have forgotten your PIN, click the button below.

Login

Help **Create a User ID** Get a PIN

Innerweb State of Utah

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Press the “Create a User ID” button. This will take you to a page where you can specify if you are a state employee or a citizen. Press the appropriate “Create” button. Non-state employees will then see the following form:

Create a Citizen Account

Please enter your account information below. All required are marked by an asterisk, "*".

Please enter information to create a user account for InnerWeb Access

Login ID: *

First Name: *

Last Name: *

Email Address and Password

Your account password will be sent to this email address. Be sure that it is your correct address.

Email Address: *

Password Restore Questions

If you forget your password. Knowing the answers to these question will send the password to the verified email address above. Select Question that only you know the answers to.

Password Restore Question 1

Answer to Question 1

State employees will see a different form that asks for the employee's Employer Number, Social Security Number, and GroupWise e-mail address. Fill in the form and press the "Enter" button. You will then have a user account that can be used to access SiteMinder protected applications to which you have been granted access.

User Profile Creation

For users to be able to access a SiteMinder protected application, they have to be granted access to the application by an application administrator. Administrators grant users access to an application by creating a profile for the application in the user's NDS directory entry. This is done with the "NDS Application Administration Tool". To create a profile for a user to access an application, follow the steps described in the

“[Administrator Assignment](#)” section of this document, but leave the values in the “Values” section of the page set to “No”.

Role Creation

Before role based security can be used from your application, you will need to create roles for your application in the NDS directory. This is done with the “NDS Application Administration Tool”. Access the tool as described in the “[Administrator Assignment](#)” section of this document. When you see the application list, press the “Edit” button of the application to which you want to add roles. You will then see the following page:

Edit SwiftExample1

Name:	SwiftExample1
Allow Public Registration?	<input type="checkbox"/> Check for Yes
Administrator's Email Address:	<input type="text"/>
URL to Application:	<input type="text"/>
URL to App Request Access page:	<input type="text"/>
Password:	<input type="text"/>

Field was Deleted

Name:	RoleA
Type:	Yes/No

Name	Type	Default
------	------	---------

Type the name of the role in the “Name” field, change the “Type” to “Yes/No” and press the “Add New Field” button. The application now has a role that can be configured in your SWiFt application to restrict access to application functionality.

There are several types of fields that can be used to represent roles in your SWiFt applications. The preceding example showed how to create the most common type. You can also represent roles as “Text”, “Radio Selection”, and “Check Box” fields. When representing roles with any field type except “Yes/No” fields, the name of the field must be “Role”. The role names are specified in the field’s value(s). For example, to represent a set of roles in a check box field, create a role with the name “Role” and set the type to “Check Box”. After adding the role you will see the role displayed at the bottom of the page as follows:

Field added

Name	Type	Default
Delete Edit RoleA	YN	
Delete Edit Role	Multiple	

To specify the roles that are represented by the field, press the “Edit” link for the role. You will then see the following page that allows you to create the values for the field:

Edit Role

Name:	Role
Type:	Multiple
Allow Update from UserInfo?:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Request Access Page Attribute?:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Default Value:	
Change Default To:	RoleB

Update Field Return

Selection Added

Selection Label:	RoleC
Value:	RoleC

Add New Label

	Label	Value
Delete	RoleB	RoleB

Type a label and value⁷ in the “Section Label” and “Value” fields and press the “Add New Label” button for each role to be represented by the check box field.

⁷ Eventually SWiFt will ignore the labels and will only use the values to determine the roles that are assigned to a user. However, a bug in some of the underlying code currently causes SWiFt to use the labels instead. To ensure that your roles work the same after the bug is fixed as they do now, use the same text for the label and the corresponding value.

Role Assignment

The final step in setting up the NDS security information is to assign the appropriate role(s) to the application's users. As with the other steps, this is done with the "NDS Application Administration Tool".

To assign roles to a user, access the administration tool and press the "Application Administration" button. You will then see a set of buttons for any applications you administer. Press the button with a label matching the name of the application you want to administer. You will then see a page that looks like the following:

Administer Application (SwiftExample1)

Select Application Show Profile Associations Modify Groups

Parents

O=CZ
ou=PUBLIC,O=CZ
cn=joeuser,ou=PUBLIC,O=CZ

Display Selector

☐ Users ☒ Org Units
☐ Groups ☐ Org Roles
Display

User Finder

Find

Organizational Units

Effective Profile for cn=joeuser,ou=PUBLIC,O=CZ

Label	Value
RoleA	<input type="radio"/> Yes <input checked="" type="radio"/> No
Role	<input type="checkbox"/> RoleC <input type="checkbox"/> RoleB

Remove Profile Modify

The page will display the role fields and values for the current user. To specify roles for a different user, use the "User Finder" as described in the "[Administrator Assignment](#)" section of this document. When the appropriate user is selected, use the "Value" section to specify the roles that should be assigned to the user. For "Yes/No" fields, only fields with a value of "Yes" are considered to be assigned to the user. After all roles have been specified, press the "Modify" button. The roles are then added to the user's profile for the application.